

AMENDMENTS TO THE CLAIMS

Please **AMEND** the claims as shown below. This listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended) An embedded door handle antenna, comprising:

a door handle;

an antenna embedded in the door handle, the embedded antenna having a core around which ~~[[an]]~~ a coiled, insulation-covered conductor is wound~~[[,]];and~~

a pattern wire passing through a longitudinal center line of the coil, the pattern wire configured such that linkage with respect to the magnetic flux at the coil is prevented,

wherein

the core comprises a magnetic core and a wiring layer which are laminated to each other, and

the magnetic core contains a flexible magnetic body made of mechanically soft magnetic material having plasticity and flexibility.

2. (Previously Presented) The embedded door handle antenna according to claim 1, wherein the wiring layer is a printed circuit board.

3. (Previously Presented) The embedded door handle antenna according to claim 1, wherein

the core is provided with an extending portion which outwardly extends from a coiled section around which the insulation covered conductor is wound, and
an electronic component is mounted on the extending portion.

4. (Previously Presented) The embedded door handle antenna according to claim 1, further comprising an electricity control section which permits and prohibits energizing the wiring layer depending upon an operation state of the embedded antenna.

5. (Previously Presented) The embedded door handle antenna according to claim 3, wherein the electronic component is a light emitting component.

6. (Currently Amended) An embedded door handle antenna, comprising:

a door handle having a hollow portion therein;

an antenna embedded within the hollow portion of the door handle, the embedded antenna comprising a flexible magnetic core containing a flexible magnetic body made of mechanically soft magnetic material having plasticity and flexibility which is laminated to a coiled wiring layer, around which an insulation covered conductor is wound;

a pattern wire passing through a longitudinal center line of the coil, the pattern wire configured such that linkage with respect to the magnetic flux at the coil is prevented; and

a connector attached to one end of the embedded antenna, the connector facilitating connection of the embedded antenna to a power circuit, wherein
the embedded antenna is energized by an action of at least one of request switch and a proximity of a keyless entry component.

7. (Previously Presented) The embedded door handle antenna according to claim 6, wherein the wiring layer is a printed circuit board.

8. (Previously Presented) The embedded door handle antenna according to claim 6, wherein
the flexible magnetic core is provided with an extending portion which outwardly extends from a coiled section around which the insulation covered conductor is wound, and an electronic component is mounted on the extending portion.

9. (Previously Presented) The embedded door handle antenna according to claim 8, wherein the electronic component is a light emitting component.

10. (Previously Presented) The embedded door handle antenna according to claim 6, further comprising an electricity control section which permits and prohibits energizing the wiring layer depending upon an operation state of the embedded antenna.